


Stanford



Jiangbin Ye

Assistant Professor of Radiation Oncology

Radiation Oncology - Radiation and Cancer Biology

 Curriculum Vitae available Online

Bio

BIO

Education

University of Pennsylvania (Doctor of Philosophy) 2010 Cancer Biology

Fudan University, Shanghai, China (Bachelor of Science) 2004 Biological Science

Research Experience

2016.9-present Assistant Professor

Department of Radiation Oncology, Stanford University

Research interests: The interaction between metabolic stress and chromatin remodeling.

2011-2016 Research Scholar

Memorial Sloan Kettering Cancer Center

Laboratory of Craig B. Thompson, M.D.

Research interests: Serine and one-carbon unit metabolism in cancer; Nutrient-sensing mechanisms in mammalian cells.

2010-2011 Postdoctoral Fellow

Abramson Family Cancer Research Institute, University of Pennsylvania School of Medicine, Laboratory of Craig B. Thompson, M.D.

2005-2010 Graduate Student

Department of Cancer Biology, Wake Forest University (2005-2006) and Department of Radiation Oncology, University of Pennsylvania School of Medicine

(2006-2010), Laboratory of Constantinos Koumenis, Ph.D

Dissertation: THE ROLE OF THE TRANSCRIPTION FACTOR ATF4 IN TUMOR PROGRESSION UNDER NUTRIENT DEPRIVATION AND HYPOXIA

ACADEMIC APPOINTMENTS

- Assistant Professor, Radiation Oncology - Radiation and Cancer Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Affiliated Faculty, Stanford Bio-X, (2016- present)
- Member, The Child Health Research Institute (CHRI) at Stanford, (2016- present)
- Member, The American Association for the Advancement of Science, (2016- present)
- Member, Cancer Epigenetics Society, (2017- present)
- Associate Member, Canary Center at Stanford for Cancer Early Detection, (2018- present)
- Member, American Association of Cancer Research, (2018- present)

LINKS

- Ye Lab: <http://med.stanford.edu/yelab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

One hallmark of cancer is that malignant cells modulate metabolic pathways to promote cancer progression. My professional interest is to investigate the causes and consequences of the abnormal metabolic phenotypes of cancer cells in response to microenvironmental stresses such as hypoxia and nutrient deprivation, with the prospect that therapeutic approaches might be developed to target these metabolic pathways to improve cancer treatment.

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

David Armenta

Postdoctoral Faculty Sponsor

Haowen Jiang

Doctoral Dissertation Advisor (AC)

Albert Li

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

Publications

PUBLICATIONS

- **Acetate supplementation eliminates hypoxia mediated resistance to differentiation therapy in neuroblastoma cells**
Li, Y., Zhou, Y., Maris, J. M., Giaccia, A. J., Ye, J.
AMER ASSOC CANCER RESEARCH.2019
- **ATF4 couples MYC-dependent translational activity to bioenergetic demands during tumour progression.** *Nature cell biology*
Tameire, F., Verginadis, I. I., Leli, N. M., Polte, C., Conn, C. S., Ojha, R., Salas Salinas, C., Chinga, F., Monroy, A. M., Fu, W., Wang, P., Kossenkov, A., Ye, et al
2019; 21 (7): 889–99
- **p53 Suppresses Metabolic Stress-Induced Ferroptosis in Cancer Cells** *CELL REPORTS*
Tarangelo, A., Magtanong, L., Biegging-Rolett, K. T., Li, Y., Ye, J., Attardi, L. D., Dixon, S. J.
2018; 22 (3): 569–75

- **GCN2 sustains mTORC1 suppression upon amino acid deprivation by inducing Sestrin2** *GENES & DEVELOPMENT*
Ye, J., Palm, W., Peng, M., King, B., Lindsten, T., Li, M. O., Koumenis, C., Thompson, C. B.
2015; 29 (22): 2331-2336
- **Translational Upregulation of an Individual p21(Cip1) Transcript Variant by GCN2 Regulates Cell Proliferation and Survival under Nutrient Stress** *PLOS GENETICS*
Lehman, S. L., Cerniglia, G. J., Johannes, G. J., Ye, J., Ryeom, S., Koumenis, C.
2015; 11 (6)
- **Serine Catabolism Regulates Mitochondrial Redox Control during Hypoxia** *CANCER DISCOVERY*
Ye, J., Fan, J., Venneti, S., Wan, Y., Pawel, B. R., Zhang, J., Finley, L. W., Lu, C., Lindsten, T., Cross, J. R., Qing, G., Liu, Z., Simon, et al
2014; 4 (12): 1406-1417
- **Quantitative flux analysis reveals folate-dependent NADPH production (vol 510, pg 298, 2014)** *NATURE*
Fan, J., Ye, J., Kamphorst, J. J., Shlomi, T., Thompson, C. B., Rabinowitz, J. D.
2014; 513 (7519): 574-574
- **Induction of sarcomas by mutant IDH2** *GENES & DEVELOPMENT*
Lu, C., Venneti, S., Akalin, A., Fang, F., Ward, P. S., DeMatteo, R. G., Intlekofer, A. M., Chen, C., Ye, J., Hameed, M., Nafa, K., Agaram, N. P., Cross, et al
2013; 27 (18): 1986-1998
- **SnapShot: Cancer Metabolism Pathways** *CELL METABOLISM*
Finley, L. W., Zhang, J., Ye, J., Ward, P. S., Thompson, C. B.
2013; 17 (3): 466-?
- **Pyruvate kinase M2 promotes de novo serine synthesis to sustain mTORC1 activity and cell proliferation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ye, J., Mancuso, A., Tong, X., Ward, P. S., Fan, J., Rabinowitz, J. D., Thompson, C. B.
2012; 109 (18): 6904-6909
- **Modulation of CCAAT/Enhancer Binding Protein Homologous Protein (CHOP)-dependent DR5 Expression by Nelfinavir Sensitizes Glioblastoma Multiforme Cells to Tumor Necrosis Factor-related Apoptosis-inducing Ligand (TRAIL)** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Tian, X., Ye, J., Alonso-Basanta, M., Hahn, S. M., Koumenis, C., Dorsey, J. F.
2011; 286 (33): 29408-29416
- **PERK promotes cancer cell proliferation and tumor growth by limiting oxidative DNA damage** *ONCOGENE*
Bobrovnikova-Marjon, E., Grigoriadou, C., Pytel, D., Zhang, F., Ye, J., Koumenis, C., Cavener, D., Diehl, J. A.
2010; 29 (27): 3881-3895
- **The GCN2-ATF4 pathway is critical for tumour cell survival and proliferation in response to nutrient deprivation** *EMBO JOURNAL*
Ye, J., Kumanova, M., Hart, L. S., Sloane, K., Zhang, H., De Panis, D. N., Bobrovnikova-Marjon, E., Diehl, J. A., Ron, D., Koumenis, C.
2010; 29 (12): 2082-2096
- **ATF4, an ER Stress and Hypoxia-Inducible Transcription Factor and its Potential Role in Hypoxia Tolerance and Tumorigenesis** *CURRENT MOLECULAR MEDICINE*
Ye, J., Koumenis, C.
2009; 9 (4): 411-416
- **Preferential Cytotoxicity of Bortezomib toward Hypoxic Tumor Cells via Overactivation of Endoplasmic Reticulum Stress Pathways** *CANCER RESEARCH*
Fels, D. R., Ye, J., Segan, A. T., Kridel, S. J., Spiotto, M., Olson, M., Koong, A. C., Koumenis, C.
2008; 68 (22): 9323-9330
- **Hypoxia and the unfolded protein response** *OXYGEN BIOLOGY AND HYPOXIA*
Koumenis, C., Bi, M., Ye, J., Feldman, D., Koong, A. C.
2007; 435: 275-?